

[Pat nt claims]

1. Sheet-guiding device for a printing machine having printing/varnishing units that are not involved in the printing/varnishing process to guide sheet printing materials in the area of blanket/plate cylinder and an associated sheet-carrying cylinder, characterized in that on the blanket/plate cylinder (12, 2) there is arranged a plate or film (11) with an ink/varnish-repellent surface, in that the blanket/plate cylinder (12, 2) can be driven at machine speed and a printing material fixed in the grip of grippers, with the printed and/or varnished side assigned to the blanket/plate cylinder (12, 2), can be conveyed through a printing/varnishing nip (10) by means of the sheet-conveying cylinder (1).

2. Sheet-guiding device according to Claim 1, characterized in that the plate or film (11) is a printing plate/printing film which has a layer of silicone rubber on the surface.

3. Sheet-guiding device according to Claim 2, characterized in that the printing plate/printing film (11) is a planographic printing plate.

4. Sheet-guiding device according to Claim 3, characterized in that the printing plate/printing film (11) is a planographic printing plate for damping-solution-free offset printing.

5. Sheet-guiding device according to Claim 1 and 2, characterized in that the plate/film (11) is a relief printing plate.

6. Sheet-guiding device according to at least Claim 1, characterized in that the rotatable

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blanket/plate cylinder (12, 2) can be positioned in a print off position.

7. Sheet-guiding device according to at least
5 Claim 1, characterized in that the rotatable blanket/plate cylinder (12, 2) can be positioned with a defined printing pressure.

8. Sheet-guiding device according to Claim 1,
10 characterized in that the plate/film (11) has a surface of chromium or aluminium or anodized aluminium or contains at least a proportion thereof.

9. Sheet-guiding device according to Claim 1,
15 characterized in that the plate/film (11) has a surface of organic/inorganic hybrid polymers on an aluminium substrate.

10. Sheet-guiding device according to Claim 1
20 and 8, characterized in that in the cracks, gaps or pores in the chromium, aluminium or anodized aluminium surface, the plate/film (11) has inlays of at least one fluoropolymer.

11. Sheet-guiding device according to Claim 1,
25 characterized in that the chromium surface of the plate/film (11) is polished to a mirror finish.

12. Sheet-guiding device according to Claim 1,
30 characterized in that the plate/film (11) can be brought into contact with a release agent.

13. Sheet-guiding device according to Claim 1
35 and 12, characterized in that the release agent contains at least silicone and/or water.

14. Sheet-guiding device according to Claim 1

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and 12, characterized in that the release agent can be transferred to the plate/film (11) that is fixed to the plate cylinder (2) via the metering system (4) and the applicator roll (3).

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15. Sheet-guiding device according to Claim 1 and 12, characterized in that the release agent can be transferred to the plate/film (11) by means of a spray device that extends in the axial direction over the width of the plate cylinder (2).

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16. Sheet-guiding device according to Claim 1, characterized in that the plate/film (11) can have its temperature controlled.

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17. Sheet-guiding device according to Claim 1 and 16, characterized in that a temperature control device supplying cold air is assigned adjacent to the plate/film (11).

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18. Sheet-guiding device according to Claim 1 and 16, characterized in that the blanket/plate cylinder (2) carrying the plate/film (11) can have its temperature controlled within the cylinder circumference.

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